

## GE4900



### Description

#### 16 Megapixel CCD camera 3 fps

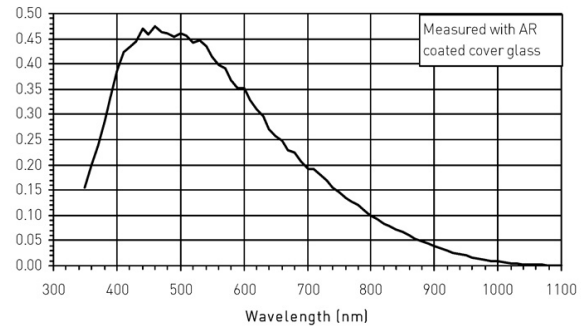
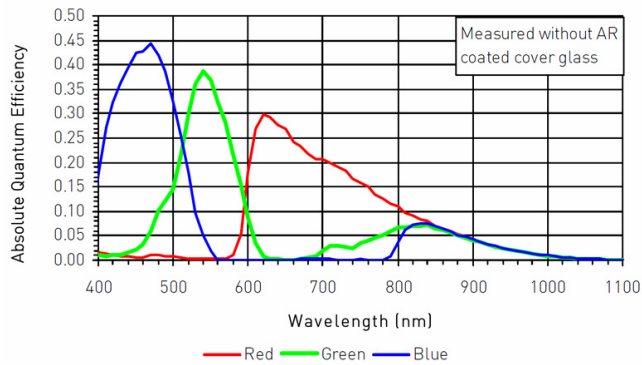
The 16 Megapixel GE4900 is a very high resolution CCD camera with Gigabit Ethernet output (GigE Vision®). The GE4900 features the high-quality 35 mm format Kodak KAI-16000 CCD image sensor that provides exceptionally high resolution and good sensitivity.

- 3 frames per second at 4872 x 3248
- F-mount lens mount
- **Models:**
  - GE4900, 4872x3248, 3 fps, CCD, mono
  - GE4900C, 4872x3248, 3 fps, CCD, color
- **Modular options:**
  - Canon EF Lens Mount (Factory conversion via RS232 I/O)
  - IRC Filter on Monochrome cameras (Factory installation)
  - Taped glass No microlens (GE4900 monochrome only - Factory built)
  - Kodak Class 1 (Factory built with Class 1 sensor grade)
  - Kodak Class 0 (Factory built with Class 0 sensor grade)

## Specifications

<b>Prosilica GE 4900</b>	
<b>Interface</b>	IEEE 802.3 1000baseT
<b>Resolution</b>	4872 x 3248
<b>Sensor</b>	Kodak KAI-16000
<b>Type</b>	CCD Progressive
<b>Sensor Size</b>	Type 35 mm
<b>Cell size</b>	7.4 $\mu$ m
<b>Lens mount</b>	F
<b>Max frame rate at full resolution</b>	3 fps
<b>A/D</b>	12 bit
<b>On-board FIFO</b>	32 MB
<b>Output</b>	
<b>Bit depth</b>	8/12 bit
<b>Mono modes</b>	Mono8, Mono16
<b>Color modes YUV</b>	n/a
<b>Color modes RGB</b>	n/a
<b>Raw modes</b>	Bayer8, Bayer16
<b>General purpose inputs/outputs (GPIOs)</b>	
<b>TTL I/Os</b>	1 input, 3 outputs (with galvanic isolation)
<b>Opto-coupled I/Os</b>	0
<b>RS-232</b>	1
<b>Power/Mass/Dimensions/Regulations</b>	
<b>Power requirements (DC)</b>	12 V
<b>Power consumption (12 V)</b>	6 W
<b>Mass</b>	391g (402g for GE4000C)
<b>Body Dimensions (L x W x H in mm)</b>	66x66x110 including connectors, w/o tripod and lens
<b>Regulations</b>	CE, FCC, Class A, RoHS

[Download Prosilica GE4900 technical drawing \(click here\)](#)



## Smart features

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

## Application Notes:

[Canon EF Adapter on Prosilica GE and Prosilica GX Cameras \(PDF - 466KB\)](#)

## Applications

The GE4900 is ideal for applications requiring very high resolution. These include:

- LCD panel inspection
- semiconductor wafer inspection
- solar panel inspection
- high-resolution industrial inspection
- aerial photography
- 3-D metrology
- general machine vision
- public security
- surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications

### Case Studies:

- **Prosilica Cameras Go Airborne**

Security & Traffic: Prosilica GE4900 used in UAV technology.

- **16 Megapixel at Work**

Logistics: Matrix Systems & Solutions uses a Prosilica GE 4900 16-Megapixel camera to scan matrix codes on a whole box of chemical bottles in one shot.

- **High Resolution Inspection for Dental Imaging System**

16 Megapixel Prosilica GE4900 CCD Camera Used in X-ray Quality Proofing.